

# IE and QA wrap-up

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## What did we learn?

- language is the way of showing our intelligence
- NLP help us create intelligent machines which will help humans
- understanding language is fundamental
  - first works on deep understanding in artificial situations did not scale up
  - recent work focus on real text with more limited goals



#### Information Extraction

- Extract structured information from unstructured texts
  - named entities
  - attributes of entities
  - relations between entities
- Bottom-up approaches
  - based on patterns developed (or learned) in specific domains
- MUC conferences showed the importance of evaluation



# Question-Answering

- Find the answer and nothing but the answer
- A common architecture has evolved
  - Question analysis
  - Document preprocessing
  - Answer generation
- Answer must often combine several information sources
- TREC-QA evaluations established the domain



### Overall

- IE and QA are instances of the more general goal of NLP techniques
  - information retrieval
  - summarization
  - text mining
- Frontiers between them are fuzzy
- Many applications
  - e-commerce (customer relations)
  - semantic web

